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U.S. NUCLEAR REGULATORY COMMISSION

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Amendment No. 41

MATERIALS LICENSE

suant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee In accordance with letter dated May 12, 2003 1. Department of the Army 3. License number 12-00722-06 is amended in U.S. Army Tank-Automotive and its entirety to read as follows: 2. Armaments Command-Rock Island 4. Expiration date August 31, 2008 ATTN: AMSTA-LC-SF Docket No. 030-13027 Reference No. Rock Island, IL 61299-7630 Chemical and/or physical form 6. Byproduct, source, and/or special 3. Maximum amount that licensee may Opossess at any one time under this nuclear materiaf license Hydrogen-3 Gas in sealed glass A Not to exceed 10 curies (370 GBq) per device (See poules condition No. 10) B. Hydrogen-3 to exceed 10.2 curies (377 GBq) per device (See Sondition No. 10) Hydrogen-3 C. Not to exceed 5.79 curies (213 GBq) per unit (See Condition No. 10) 3M Moder ZX Sealed One millicurie per sight, total Promethium-147 Glass encapsulated not to exceed one curie eramic bound sources in rifle sights Hydrogen-3 E. Tritium gas sealed in glass Nine millicuries per sight, in rifle sights total not to exceed nine curies F. Hydrogen-3 Sealed glass ampoules in F. No single sight to exceed sights (Mb Microtec AG 210 millicuries, 42 curies Model Nos. 400/1, 400/2, total 400/3, 400/4, 400/5 or 400/6)

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		License Number 12-00722-06
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9. Authorized Use:

- A. To be used in fire control devices containing self-luminous tritium sources and for possession incident to maintenance and repair of these devices and installation into artillery systems.
- B. For use in Muzzle Reference Sensors (MRS) on the family of main battle tanks used by the United States military services.
- C. For use in the M67 Sight Unit on the M120 and M121, 120mm mortar, the M224 60mm mortar and the M252 81mm mortar.
- D. and E. For possession incident to collection and disposal as radioactive waste only.
- F. To be used in Ranger Attiarmor Antipersonnel Weapon system for enhanced night firing capability.

. The total possession line for Hydrog all not exceed curies (55 BBq).

- 11. A. Licensed material listed in the factor of the facto
 - B. Licensed material listed in Items 6.D. and 6.E. hay possessed incident to collection and disposal as radioactive waste only, throughout the United States and any other location where the Commission maintains jurisdiction for regulating the possession of licensed material.
- 12. A. Licensed material shall be used by, or under the supervision of, **Thomas Gizicki** or U.S. Army, National Guard and Marine Corps. civilian and/or military personnel trained in accordance with letter dated January 10, 2002.
 - B. Radiation Safety Officer: Thomas Gizicki
 - C. Alternate Radiation Safety Officer: Tim Mohs
- 13. Sealed sources containing licensed material shall not be opened.

The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

- 15. The licensee shall conduct a physical inventory every twelve (12) months to account for all sealed sources received and possessed under the license. The records of the inventories shall be maintained for inspection by the Commission, and shall include the quantities and kinds of byproduct material, location of sealed sources and the date of the inventory.
- 16. Notwithstanding the color requirements in 10 CFR 20.1901 (a), the licensee is authorized to label fielded items of equipment with colors as described in letter dated October 29, 1997.
- 17. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - A. Letters dated October 29, 1991, and 1992, Augus 298, March 18, 1999, November 29, 1999, December 6, 4999 (excluding the 2, 1981 parallel grant gran
 - B. Facsimiles dated May 18, 1 marks and 20 m

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

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Date AUG 0 7 2003

Loren J. Hueter

Materials Licensing Branch

Region III